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FIG. 1A



FIG. 1B

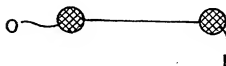


FIG. 1C

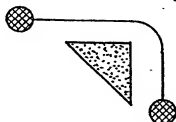


FIG. 1D

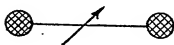


FIG. 1E

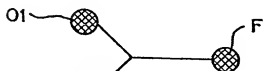


FIG. 1F

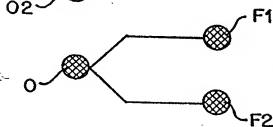


FIG. 1G

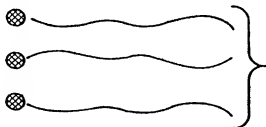


FIG. 1H

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FIG. 2A

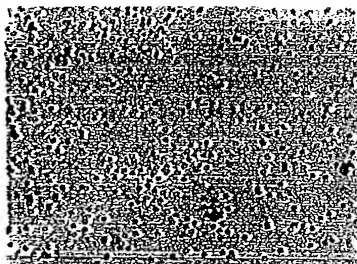
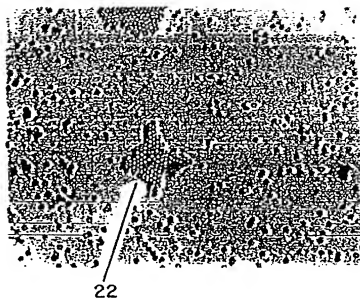


FIG. 2B



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FIG. 2C

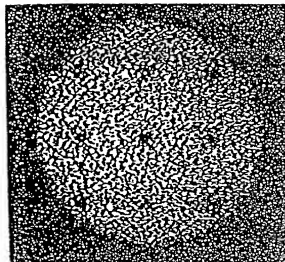
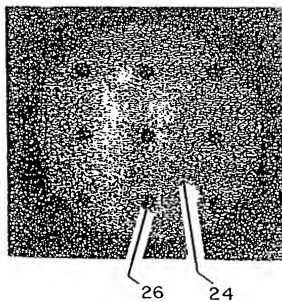


FIG. 2D





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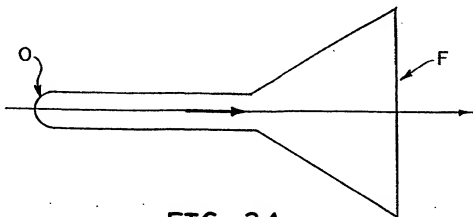


FIG. 3A

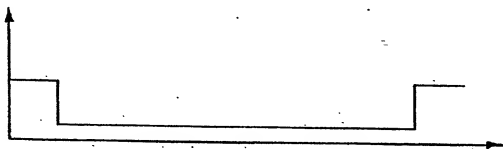
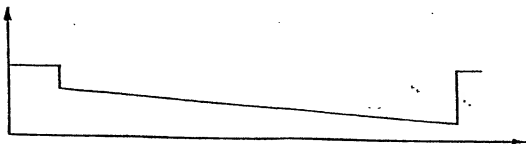
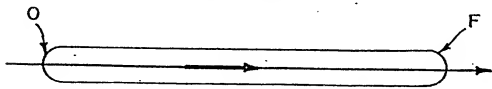


FIG. 3B



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FIG. 3C

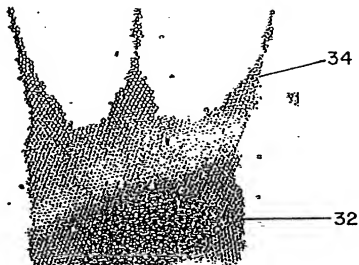
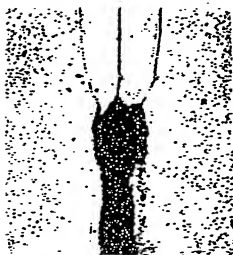


FIG. 3D



1008604.002502



FIG. 4A

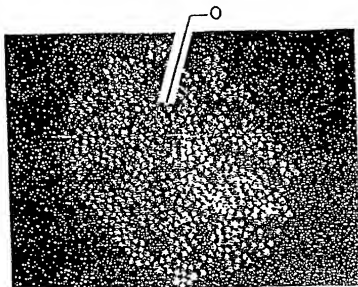
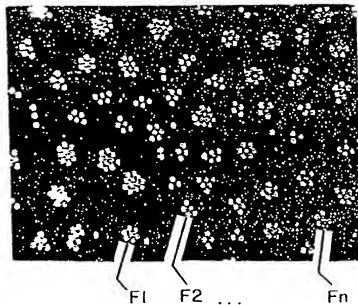


FIG. 4B



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FIG. 5

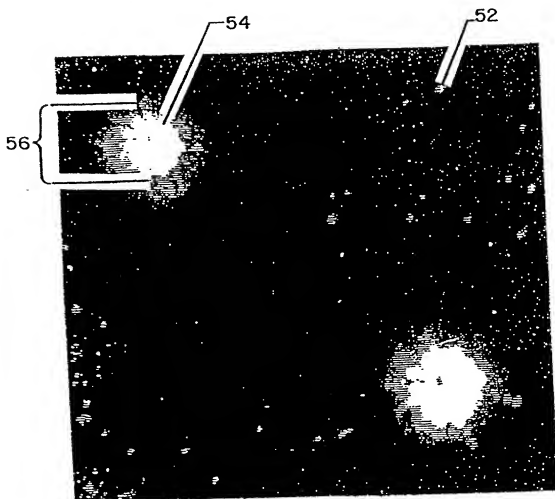


FIG. 7

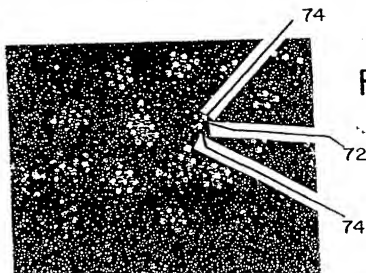


FIG. 6A

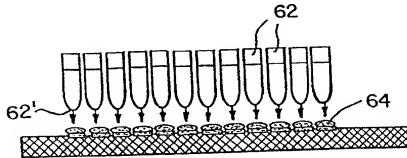


FIG. 6B

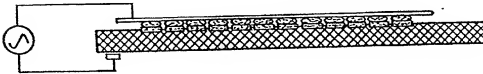


FIG. 6C

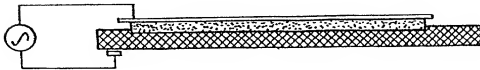
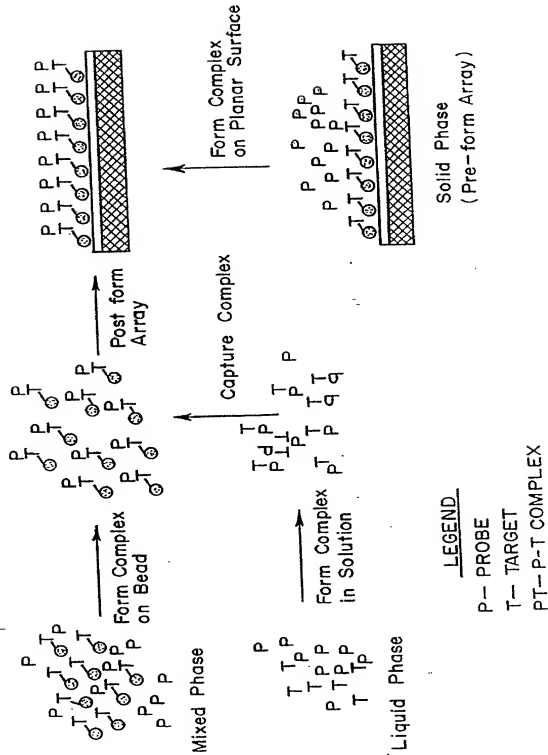


FIG. 8



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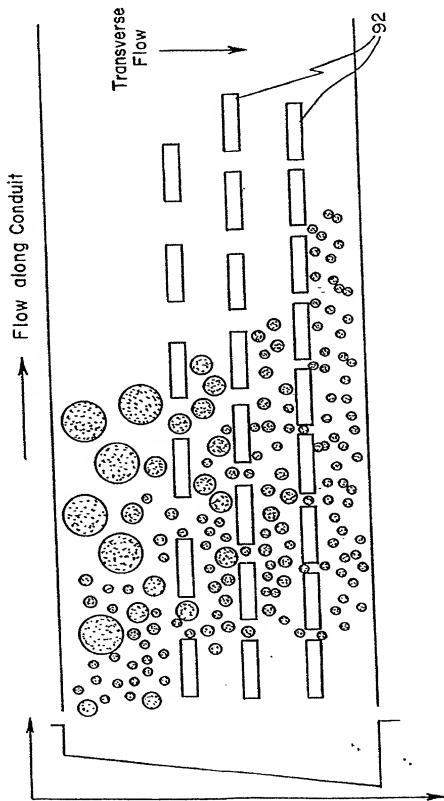


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FIG. 9A





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FIG. 9B

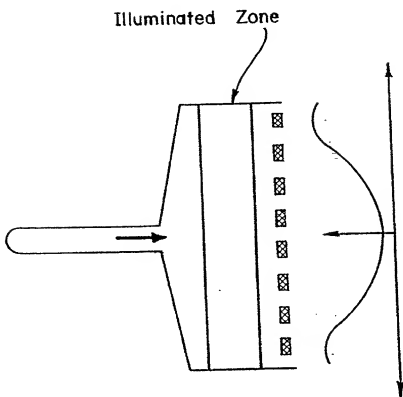


FIG. 9C



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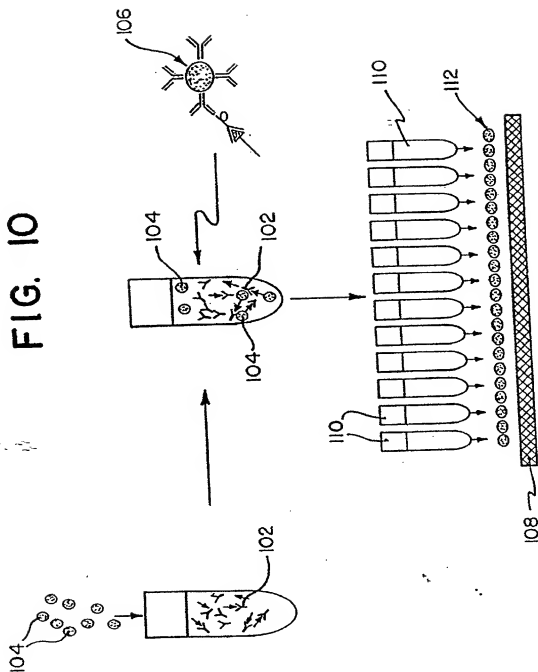


FIG. 11A

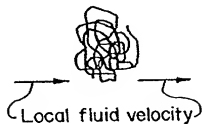


FIG. 11B



FIG. 11C

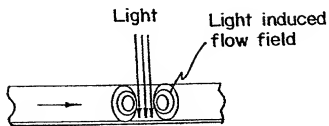


FIG. 11D

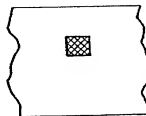
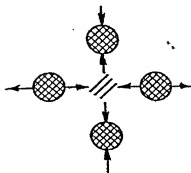


FIG. 11E



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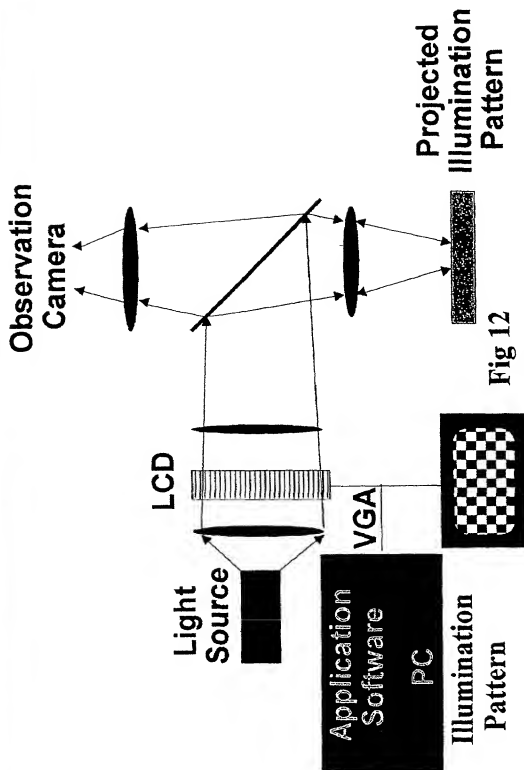


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ILLUMINATION PATTERN GENERATOR



LCD-PARSE OPTICAL DESIGN

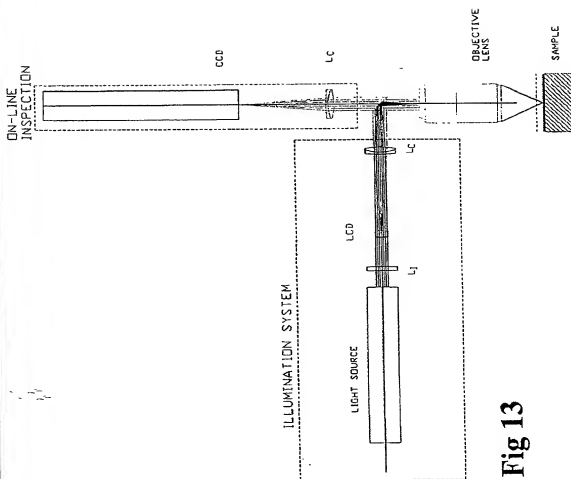


Fig 13

ARRAY SHAPE ADJUSTMENTS

CIRCLE

HORIZONTAL LINE

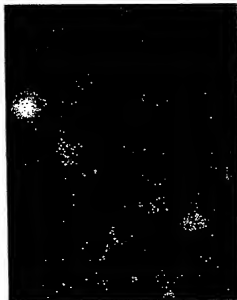
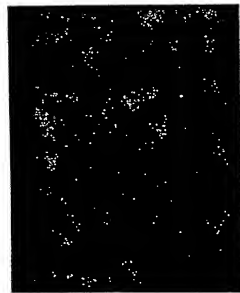


FIG. 14A

FIG. 14C

VERTICAL LINE

SQUARE



FIG. 14B

FIG. 14D



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COLLECTION AND ARRAY ASSEMBLY

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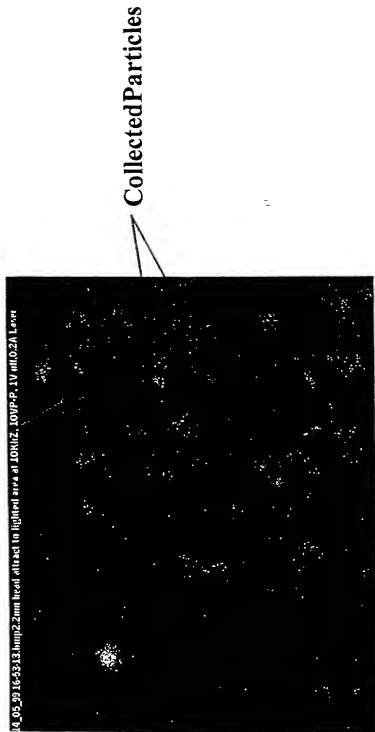


FIG. 15A

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EXPULSION AND CONFINEMENT



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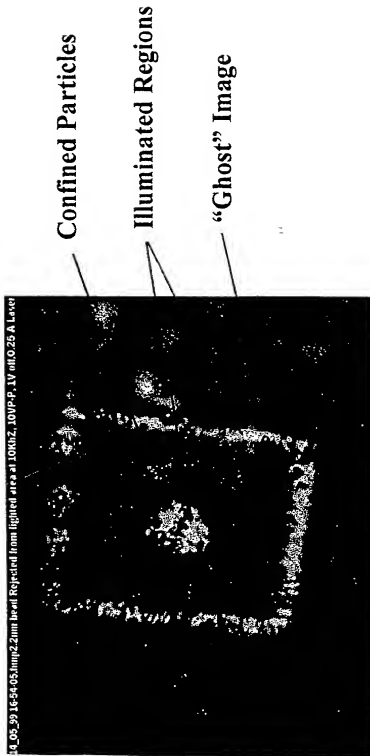


FIG. 15B

ROSENTHAL & WILSON



DRAG AND DROP

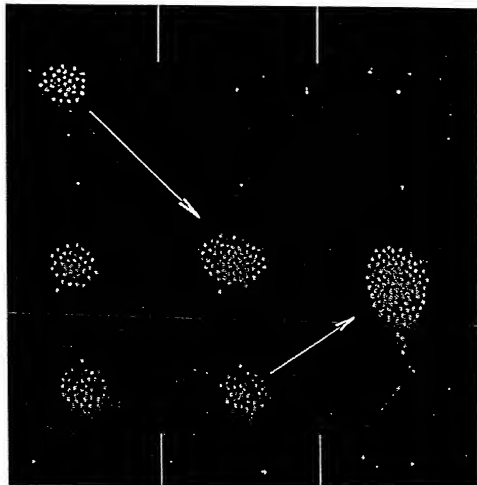


Figure 16

Programmable Array Reconfiguration and Segmentation

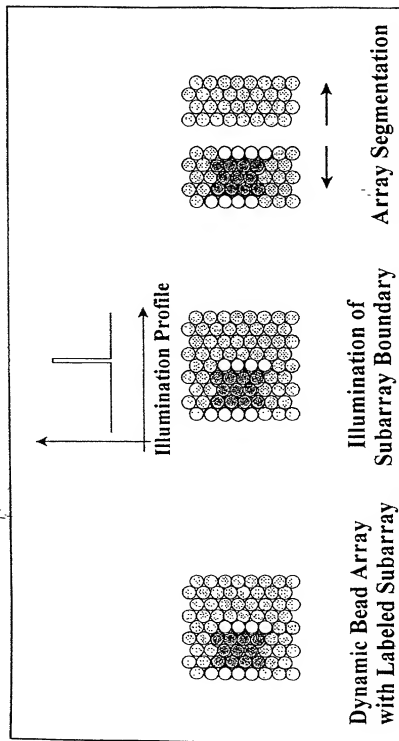


Figure 17

2092807-1096607



LCD PARSE

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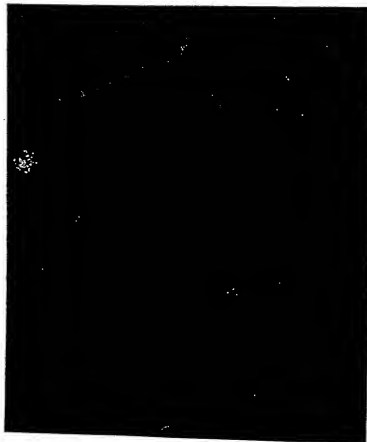


FIG. 18A

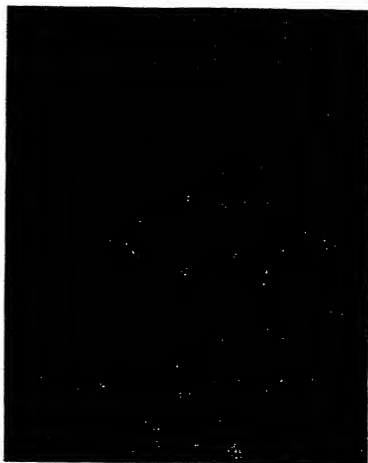


FIG. 18B

2052601 40586001

LCD PARSE

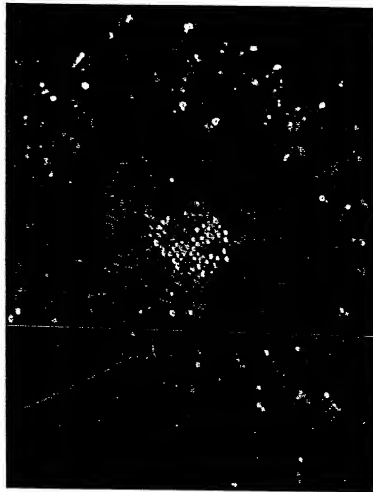
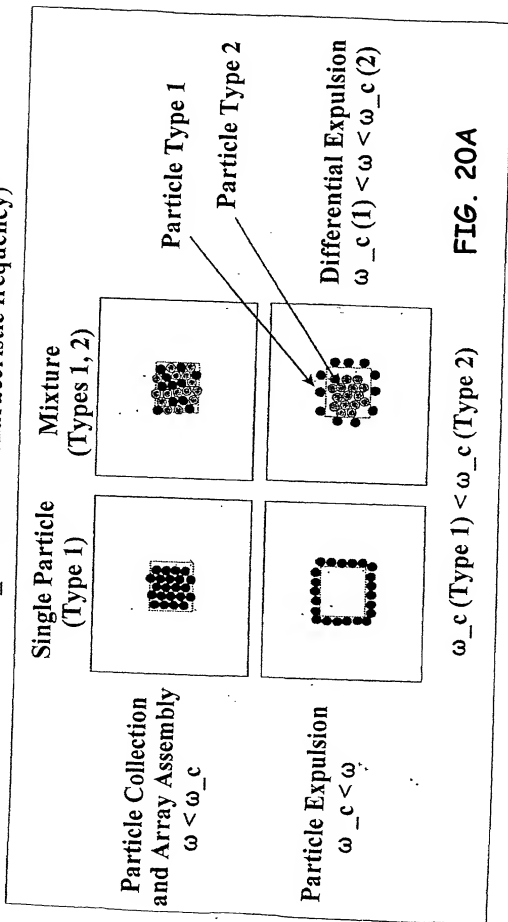


Figure 19

FRACTIONATION

Differential Frequency Dependence of Particle Expulsion
(NOTE: ω_c denotes a characteristic frequency)



FRACTIONATION

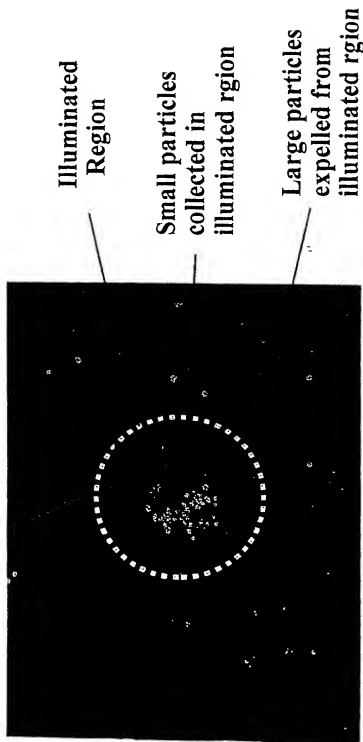


FIG. 20B

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FIG. 21A

LCD PARSE

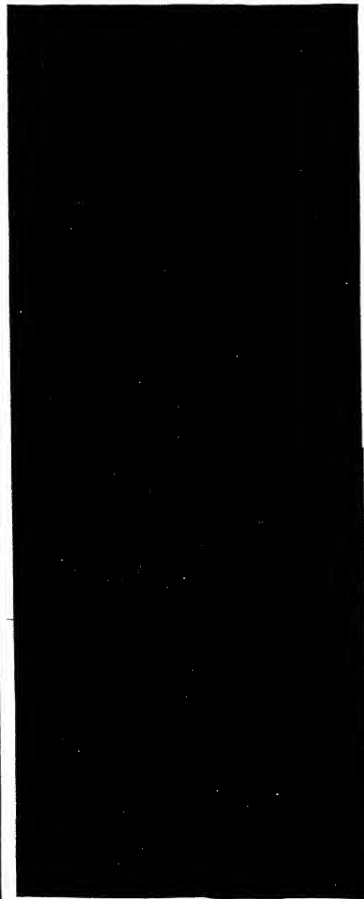
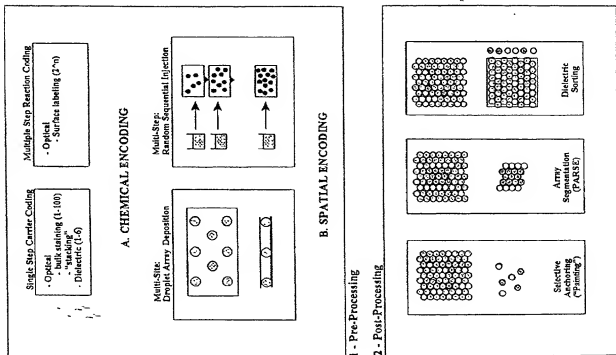


FIG. 21A

FIG. 21B

FIG. 22A

FIG. 22B



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RANDOM SEQUENTIAL INJECTION



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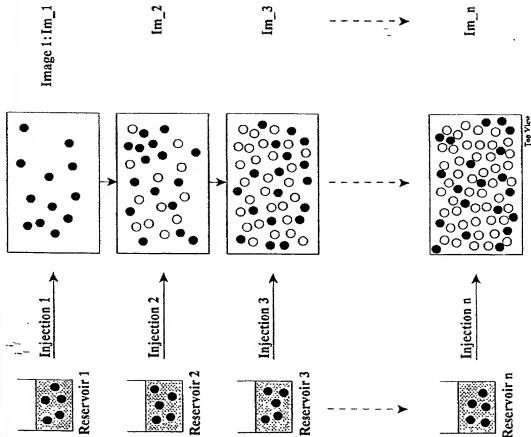


Figure 23

205260/60986001

SEQUENTIAL INJECTION & LIGHT-CONTROLLED ARRAY PLACEMENT



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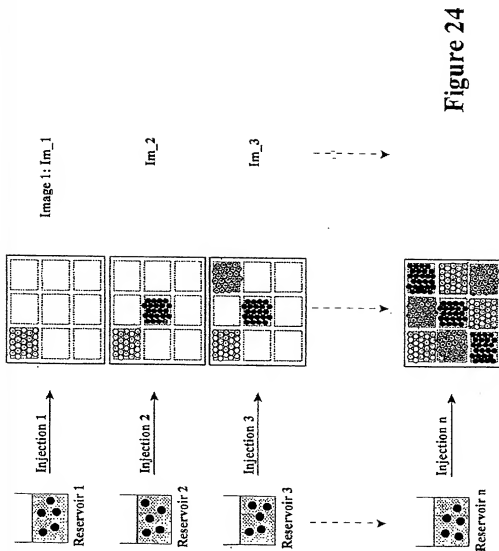


Figure 24

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MACRO-TO-MICRO TRANSITION

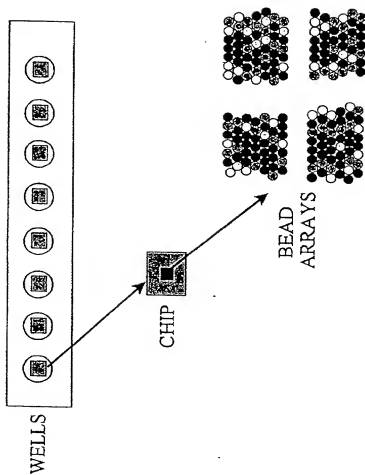


FIG. 25A

205280' 40566001

ARRAY ENCODING

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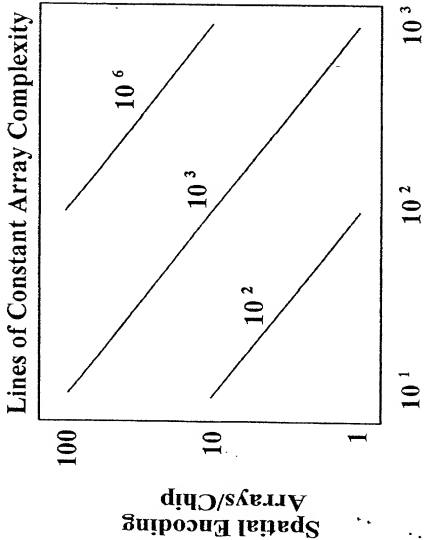


FIG. 25B

209280*40986001

ARRAY ENCODING

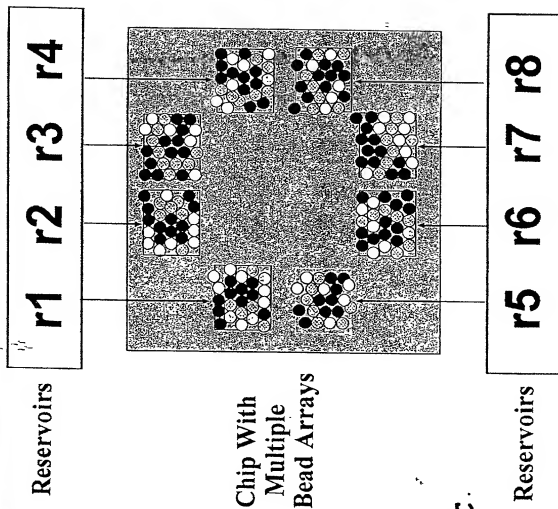


FIG. 25C.

205280 40586001



SEQUENTIAL ASSEMBLY: "BANDING"

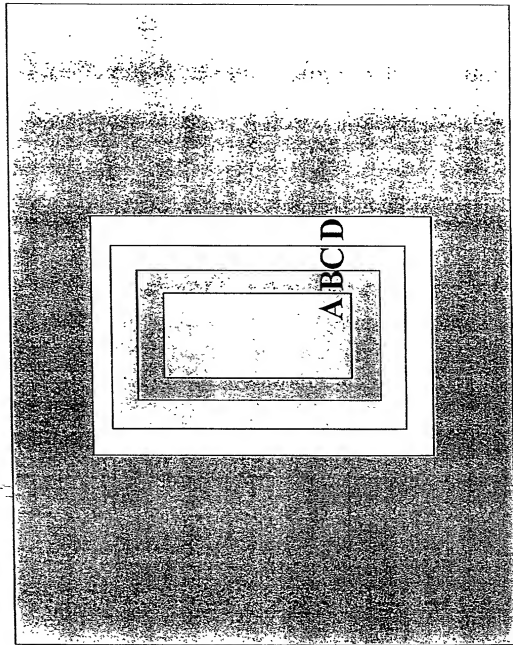


FIG. 26A

209280' 40986001

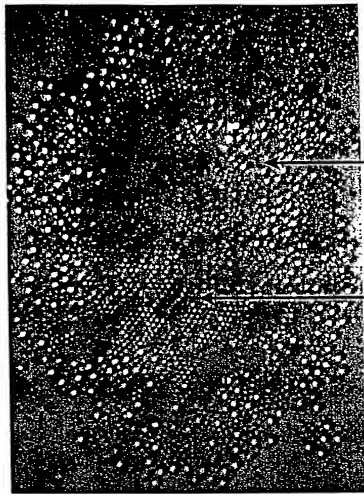
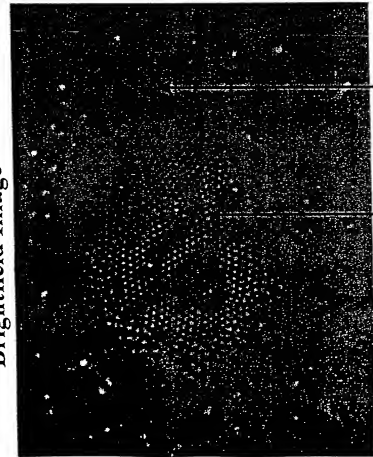


SEQUENTIAL ASSEMBLY: "BANDING"

Mixture of Two Particle Types

Brightfield Image

Darkfield Image



2.8 μm 5.5 μm

2.8 μm 5.5 μm

FIG. 26B



200201090001

LCD PARSE

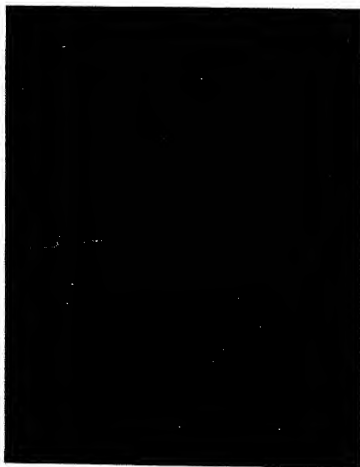


Figure 27



209260*40966001

ARRAY OF RANDOM SUBARRAYS

A UNIQUE TWO-DIMENSIONAL BAR CODE

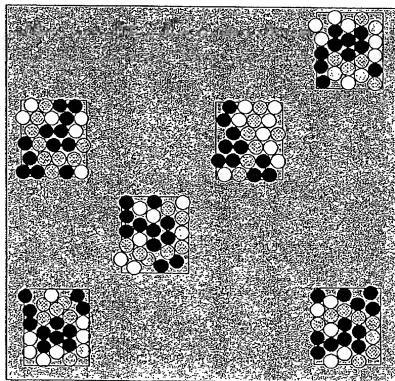


Figure 28

205280*40566001



LIGHT-INDUCED FLUID FLOW

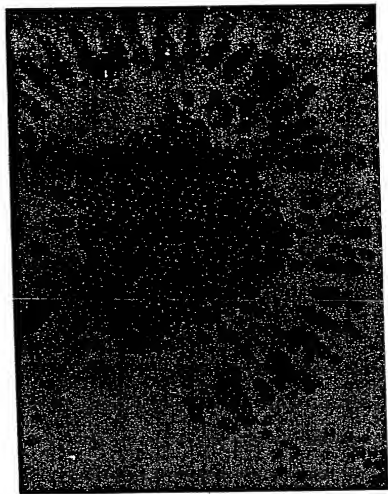


Figure 29